

Woody plant counts were not performed for WMA because the monitoring event was performed in November after leaves had fallen and herbaceous growth by cattails, wingstem, and goldenrods had reached its maximum extent obscuring many of the smaller woody plantings. Woody plant counts for WMA A and WMA B will be performed during the May 2011 monitoring, when herbaceous vegetation will be lower in height.

3.4 STREAMS

3.4.1 Stream Restoration/Improvement Areas

A total of 5,075 linear feet of Long Run, Piney Creek South, and Piney Creek North were enhanced by planting trees and shrubs within the riparian zone and restoration of eroding stream banks (figures 4-6). The stream bank restoration measures included grading of eroded stream banks, live staking, short-term stabilization using coir mats and logs, and long-term channel protection with woody plant establishment, boulder toe protection, and installation of J-hook rock vanes in the stream channel and seeding the re-graded banks with an upland buffer seed mixture. The success of the stream improvement projects were evaluated during this monitoring event.

An evaluation of the stream restoration measures indicates that the measures have stabilized some banks with vegetation and structures, but that stream bank erosion is still occurring in other areas (Table 3). The restoration status of each reach was evaluated and photo-documented during the field reconnaissance. The percentage of successful bank restoration was estimated for each sub-reach and bank and this estimate was used to compute the length of restored bank. Between 60%-65% of the treated banks along Piney Creek South and North were considered restored and additional stabilization treatments are recommended for the remaining bank areas (see Corrective Actions, Table 3). A little over half (53%) of the treated banks along long Run were evaluated as being successfully restored and additional improvement measures are recommended.

The most severe stream channel erosion has occurred in Long Run where the stream crosses the breached embankment for the old freshwater impoundment in WMA A (see photographs 64-66).